



Institute for Development and Research in Banking Technology

(Established by Reserve Bank of India)

Castle Hills, Road No. 1, Masab Tank, Hyderabad-57, India.

e-Programme on

SECURE CODING PRACTICES

October 05 – 08, 2021

Introduction

With lots of digitization around, banks are under stress to open APIs, develop new applications for customers as well as employees around their core banking. Building new apps around core banking without proper understanding of security vulnerabilities like SQL Injection, Remote Code Execution etc might put the bank in higher risk zone. Whether the bank develops the application on its own or buys it, it is advisable for the banks to understand the security vulnerabilities arising from bad coding practices, how they manifest and what the remedial measures are. For majority of the attacks, bad programming is the sole source of problem. Security experts deploy remedial measures across the entire enterprise network stack right from Web application firewalls, to end-point security. It is like making the outer wall stronger to secure the weak inner applications. Majority of these solutions are not needed if the programs are written with security in mind.

Objectives

- To bring awareness about secure coding practices.
- To discuss the remedial measures

Contents

- Input Validation (SQL injection, XSS, command injection, file inclusion vulnerabilities)
- Authentication, Session management, and Access control
- Memory management and buffer overflow attack
- API Security Practices

Mode of Teaching

Online teaching plus learning inputs through reading material, videos, webinars, assignments, quizzes, online interactions and clarifications. Each e-Programme will have four live webinars and course material will be made available in advance for study.

Who Can Participate?

Developers, Inspection officials as well as officials in IT and Information Security function involved in design, deployment and maintenance and security of information systems.

End Use:

Participants would be able to appreciate the coding vulnerabilities and act accordingly to strengthen the applications and overall IT environment in all its dimensions: Data, Applications and Technologies.

Programme Coordinator:

Dr. V. Radha, Associate Professor, IDRBT; e-mail: vradha@idrbt.ac.in

Fees:

For Indian Participants

- RRBs & Coop Banks: Rs. 8,850/-(Rs. 7,500/- + 18% GST)
- All Other Banks & FI's: Rs. 11,800/-(Rs. 10,000/- + 18% GST)

For International participants

- US \$ 175 (per participant, All inclusive)

Bank Account Details for Remittance of Fees

The fees for this e-programme can be remitted to the following accounts:

For Indian Participants

Account Name : IDRBT
Bank & Branch : Axis Bank Limited, Humayun Nagar, Mehdiapatnam, Hyderabad
Account No. : 426010100018823
MICR Code : 500211012
IFSC Code : UTIB0000426

For International participants

Receiver's Correspondent Bank : JP Morgan Chase, New York, USA
Swift Code : CHASUS33XXX
Fed Wire Routing Number : ABA 021000021
Beneficiary Bank & Branch : Axis Bank Ltd., Mumbai, India
Account Number : 0011407376
Beneficiary Bank Swift Code : AXISINBB

Ultimate Beneficiary

Account Name : IDRBT
Customer ID : 030021632
Account No. : 426010100018823
Bank & Branch : Axis Bank Ltd., Jubilee Hills, Hyderabad, India. (AXISINBB030)

Nominations

Banks may nominate any number of participants to these e-Programmes, which may be accepted on a first-cum-first-served basis. While nominating, please provide the details of the participants (Name, Designation, Bank, Mobile No/Phone No, email address, fees billing address, GST No. of the Bank).

Apart from nominations by banks, staff members of banks can self-nominate themselves for these e-Programmes by providing their employee credentials and paying the programme fee latest by **October 04, 2021**.

How to Register

The nominations for these e-Programmes, and queries if any, may please be sent to eprogram@idrbt.ac.in. Please visit <https://www.idrbt.ac.in/eprogrammes> for more details about these programmes.

e-Programmes in October 2021

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Awareness on Payment Systems Vision 2021	04 – 07	Dr. N. V. Narendra Kumar	Oct 01, 2021
2	Fundamentals of Open Source Technologies	04 – 07	Dr. Mridula Verma	Oct 01, 2021
3	AI/ML and Data Science for Banking	04 – 07	Dr. V. Ravi	Oct 01, 2021
4	Secure Coding Practices	05 – 08	Dr. V. Radha	Oct 04, 2021
5	Technologies for Financial Inclusion	05 – 08	Dr. M. V. N. K. Prasad	Oct 04, 2021
6	Threats to Digital Payment Ecosystem	11 – 14	Dr. Susmita Mandal	Oct 08, 2021
7	Workshop on Registration Authority Operations	11 – 14	Dr. N. P. Dhavale	Oct 08, 2021
8	Virtualization and Cloud Computing	25 – 28	Dr. P. Syam Kumar	Oct 22, 2021
9	Introduction to Governance, Risks and Compliance	25 – 28	Dr. Abhishek Kumar	Oct 22, 2021
10	AI/ML for Cyber Security	26 – 29	Dr. Rajarshi Pal	Oct 25, 2021
11	Insider Threats - Monitoring, Analysis and Detection	26 – 29	Dr. B. M. Mehtre	Oct 25, 2021

e-Programmes in November 2021

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Blockchain and Distributed Ledger Technology	08 – 11	Dr. N. V. Narendra Kumar	Nov 05, 2021
2	Introduction to Authentication Techniques	09 – 12	Dr. M.V.N.K. Prasad & Dr. N.P. Dhavale	Nov 08, 2021
3	Secure Financial Infrastructure	09 – 12	Dr. Susmita Mandal	Nov 08, 2021
4	5G & Internet of Things (IoT) for Banks	15 – 18	Dr. V. N. Sastry	Nov 12, 2021
5	Introduction to Technologies for Customer Lifecycle Management	15 – 18	Dr. V. Ravi	Nov 12, 2021
6	Proactive Cyber Defence Strategies	16 – 19	Dr. Dipanjan Roy	Nov 15, 2021
7	Data Centre Management	22 – 25	Dr. P. Syam Kumar	Nov 19, 2021
8	Cyber Security for Remote Working Scenario	23 – 26	Dr. Rajarshi Pal	Nov 22, 2021
9	Dark Web Monitoring for Threat Intelligence	23 – 26	Dr. B. M. Mehtre	Nov 22, 2021
10	Emerging AI/ML Technologies	Nov 30 – Dec 03	Dr. Mridula Verma	Nov 29, 2021
11	Security Operations Centre	Nov 30 – Dec 03	Dr. V. Radha	Nov 29, 2021

e-Programmes in December 2021

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Re-imagining Customer Engagement with Conversational Chatbots	06 – 09	Dr. Mridula Verma	Dec 03, 2021
2	Awareness on Payment Systems Vision 2021	06 – 09	Dr. N.V.Narendra Kumar	Dec 03, 2021
3	Explainable AI/ML for Banking	06 – 09	Dr. V. Ravi	Dec 03, 2021
4	Introduction to Hardware Security for Banks	07 – 10	Dr. Dipanjan Roy	Dec 06, 2021
5	Technologies for Financial Inclusion	14 – 17	Dr. M. V. N. K. Prasad	Dec 13, 2021
6	Security in Cloud Computing	14 – 17	Dr. P. Syam Kumar	Dec 13, 2021
7	Workshop on Registration Authority Operations	20 – 23	Dr. N. P. Dhavale	Dec 17, 2021
8	Privacy and Security Risks in Machine Learning	21 – 24	Dr. Rajarshi Pal	Dec 20, 2021
9	Targeted Attacks - Detecting in early stages	21 – 24	Dr. B. M. Mehtre	Dec 20, 2021
10	API Development	27 – 30	Dr. V. Radha	Dec 24, 2021
11	Basics of IT Vendor Management	28 – 31	Dr. Abhishek Thakur	Dec 27, 2021